

MECHANISM FOR DATA FORWARDING**ABSTRACT OF THE DISCLOSURE**

A system and method are disclosed which allow unstored computed results to be accessed without the normal overhead associated with traditional data forwarding and bypass techniques. Through the use of multiplexers and bi-directional OR controllers the unstored data is readily accessible for use before it is stored in a register file. The circuitry used also allows bi-directional travel across a register file or bank as information is passed between the bi-directional controllers used. Latches can also be used in the circuitry. Additionally, the features of the invention allow the required number of select signals fed to the multiplexers used to be reduced over conventional methods. These reductions are possible through circuitry disclosed herein.